

551,665

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
21 October 2004 (21.10.2004)

PCT

(10) International Publication Number
WO 2004/089290 A2

(51) International Patent Classification⁷: **A61K**
(21) International Application Number:
PCT/US2004/010164

(22) International Filing Date: 1 April 2004 (01.04.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/459,789 2 April 2003 (02.04.2003) US

(71) Applicant (for all designated States except US): **PHARMACHEM LABORATORIES, INC.** [US/US]; 265 Harrison Avenue, Kearny, NJ 07032 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **SKOP, Mitchell** [US/US]; 30 Venus Drive, Closter, NJ 07624 (US). **CHOKSHI, Dilip** [US/US]; 9 Patrician Court, Parsippany, NJ 07054 (US).

(74) Agent: **BARON, Ronald, J.**; Hoffmann & Baron, LLP, 6900 Jericho Turnpike, Syosset, NY 11791 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: NOVEL PROBIOTIC COMPOSITIONS AND METHODS OF USING THE SAME

(57) Abstract: The invention provides a soft, chewable confection obtained without using high heat or dehydration. In one embodiment, the confection contains an active ingredient which consists essentially of an effective amount of at least one probiotic organism. In another embodiment, the confection consists essentially of an effective amount of at least one probiotic organism and an effective amount of at least one prebiotic. In a further embodiment, the confection consists essentially of an effective amount of at least one probiotic organism and a nutrient contained in a glycoprotein matrix, or an enzyme, or both. In yet another embodiment, the confection consists essentially of at least one probiotic organism, at least one prebiotic, and a nutrient contained in a glycoprotein matrix, or an enzyme, or both.



WO 2004/089290 A2